INVENTORY FORM FOR STATE HISTORIC SITES SURVEY

HISTORIC Curtis Creek Iron Furr	,		
AND/OR COMMON			
LOCATION South shore of H	Furnace Creek, a	branch of Curt	tis Creek.
STREET & NUMBER aprox. 1 mile east		way (Rt. 2) of	ff the nor
CITY, TOWN Glen Burnie		CONGRESSIONAL DISTRI	
	VICINITY OF	COUNTY	
STATE		Anne Aru	ındel
CLASSIFICATION			
CATEGORY OWNERSHIP STATUS		PRESI	ENT USE
_DISTRICT _PUBLIC	_OCCUPIED	AGRICULTURE	MUSEUM
BUILDING(S)PRIVATE	UNOCCUPIED	COMMERCIAL	PARK
STRUCTUREBOTH	WORK IN PROGRESS	EDUCATIONAL	PRIVATE RESID
_SITE PUBLIC ACQUISITION	ACCESSIBLE	ENTERTAINMENT	RELIGIOUS
OBJECTIN PROCESS	YES: RESTRICTED	GOVERNMENT	SCIENTIFIC
BEING CONSIDERED	YES: UNRESTRICTED	INDUSTRIAL	TRANSPORTAT
	NO	MILITARY	OTHER:
OWNER OF PROPERTY	ion State Wighwe	Administration	i 0 10
OWNER OF PROPERTY NAME MD Dept. of Transportat: STREET & NUMBER	ion . State Highwa T	y Administrat: elephone #:	ion
NAME MD Dept. of Transportat: STREET & NUMBER CITY. TOWN			ion
NAME MD Dept. of Transportat: STREET & NUMBER CITY.TOWN Baltimore ——	VICINITY OF		
NAME MD Dept. of Transportat: STREET & NUMBER CITY. TOWN Baltimore	, VICINITY OF	STATE , Z	
NAME MD Dept. of Transportat: STREET & NUMBER CITY. TOWN Baltimore LOCATION OF LEGAL DESCR	VICINITY OF LIFT	STATE, Z	
NAME MD Dept. of Transportat: STREET & NUMBER CITY. TOWN Baltimore LOCATION OF LEGAL DESCR	VICINITY OF LIFT	state, z MD iber #:	
NAME MD Dept. of Transportat: STREET & NUMBER CITY. TOWN Baltimore LOCATION OF LEGAL DESCR COURTHOUSE. REGISTRY OF DEEDS, ETC. Anne Arundel Co	VICINITY OF LIFT	state, z MD iber #:	
NAME MD Dept. of Transportat: STREET & NUMBER CITY. TOWN Baltimore LOCATION OF LEGAL DESCR COURTHOUSE. REGISTRY OF DEEDS,ETC. STREET & NUMBER CITY. TOWN Annapolis	VICINITY OF RIPTION L FOUNTY	state, z MD iber #: olio #:	
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NAME MD Dept. of Transportat: STREET & NUMBER CITY. TOWN Balt; imore LOCATION OF LEGAL DESCR COURTHOUSE. REGISTRY OF DEEDS, ETC. STREET & NUMBER CITY. TOWN Annapolis REPRESENTATION IN EXIST TITLE	VICINITY OF RIPTION L FOUNTY ING SURVEYS	state, z MD iber #: olio #:	ip code

CONDITION

__EXCELLENT

__DETERIORATED

__GOOD

__RUINS
__UNEXPOSED

CHECK ONE

__UNALTERED

CHECK ONE

_ORIGINAL SITE

__MOVED DATE____

DESCRIBE THE PRESENT AND ORIGINAL (IF KNOWN) PHYSICAL APPEARANCE

Information relating to this site was given to John Nydak, Nov. 1978 for the Historic Sites Survey he is preparing for the State Highway Administration. This site is also included in the Anne Arundel County Critical Areas Recommendations.

PERIOD	AF	REAS OF SIGNIFICANCE CH	IECK AND JUSTIFY BELOW	
PREHISTORIC	ARCHEOLOGY-PREHISTORIC	COMMUNITY PLANNING	_LANDSCAPE ARCHITECTURE	RELIGION
1400-1499	_ARCHEOLOGY-HISTORIC	CONSERVATION	_LAW	SCIENCE
1500-1599	AGRICULTURE	ECONOMICS	LITERATURE	SCULPTURE
1600-1699	ARCHITECTURE	EDUCATION	MILITARY	SOCIAL/HUMANITARIAN
_1700-1799	ART	ENGINEERING	MUSIC	THEATER
1800-1899	COMMERCE	EXPLORATION/SETTLEMENT	PHILOSOPHY	_TRANSPORTATION
1900-	COMMUNICATIONS	INDUSTRY	POLITICS/GOVERNMENT	OTHER (SPECIFY)
		_INVENTION		
SPECIFIC DAT	ES	BUILDER/ARCHITECT		

STATEMENT OF SIGNIFICANCE

9 MAJOR BIBLIOGRAPHICAL REFERENCES

CONTINUE ON SEPARATE SHE	ET IF NECESSARY	
10 GEOGRAPHICAL DATA		
ACREAGE OF NOMINATED PROPERTY		
VERBAL BOUNDARY DESCRIPTION		
LIST ALL STATES AND COUNTIES	FOR PROPERTIES OVERLAPPING STATE OR COUNTY BOUNDARIES	
STATE	COUNTY	
STATE	COUNTY	_
		_
11 FORM PREPARED BY		
NAME / TITLE		
ORGANIZATION	DATE	
CYPET & MUMOSP	TELEPHONE	
STREET & NUMBER	IELEFRONE	
CITY OR TOWN	STATE	

The Maryland Historic Sites Inventory was officially created by an Act of the Maryland Legislature, to be found in the Annotated Code of Maryland, Article 41, Section 181 KA, 1974 Supplement.

The Survey and Inventory are being prepared for information and record purposes only and do not constitute any infringement of individual property rights.

RETURN TO: Maryland Historical Trust

The Shaw House, 21 State Circle

Annapolis, Maryland 21401

(301) 267-1438

Site: The ruins of the Curtis Creek Iron Furnace are located on the South Shore of Furnace Creek, a branch of Curtis Creek, approximately limite east of the Ritchie Highway off the North side of Furnace Branch Road and West of the development known as Hammarlee.

The reins are located on a bank above the water. There are some foundation stones still in place with other stones and brick fragments scattered about the area. There is a great deal of slag throughout the area. A clean-up and some digging at the site in 1968 exposed several pieces of iron ware including two ladle pots 15" high and 12" diameter. The Star-Spangled Banner Flag House in Baltimore contains an iron cannon ball found on the site. In the late 1960's when a sweer line was being run through the site, 12" x 12" oak timbers that must have been used for a wharf were excavated.

This site even though it is very close to a lot of buildings and houses is very isolated in feeling because of the high banks and trees.

History: The Curtis Creek Furnace, also known as the Marley Furnace, was built about 1759 by Caleb and Edward Dorsey, (of Avalon) and Alexander Lawson who in 1758 applied for a writ ad Quod Dawnum (to what damage - to ascertain what damage would result from the grant of a franchise) for 100 acres for a furnace to run pig iron on a branch called Long Bridge Branch near the head of Curtis Creek. The Writ was granted on April 12, 1759. The furnace was built by Edward Dorsev and William Goodwin, and Caleb Dorsev later purchased Alexander Lawson's interest in the venture. Lawson and the Dorsevs had previously founded the Elkridge Furnace on the Patapsec In 1755.

For several years the Curtis Creek works were operated in conjunction with the Dorsey Establishment at Elk Ridge. After Caleb Dorsey's death in 1772 The Curtis Creek holdings were sold.

On April 23, 1773, Samuel Dorsey, Jr., Charles Ridgely, Michael Poe, William Goodwin, and William Buchanan, the co-partners of the Northhampton Furnace (Baltimore County), in the adjustment of their affairs, sold the works to a Mr. William Barker, who operated them as the Curtis Cree' Iron Works. As late as 1340 they were being operated by J. Barker and Son. William Barker and Son also operated an iron foundry in Baltimore. Barker smelted some local iron ore but using water transportation to good advantage brought in additional ore from Whetstone and Gorscuch Points in Baltimore.

Barker erected a foundry at Curtis Creek in 1829 and this and their foundry in Baltimore converted into castings two-thirds of the average output of 1100 tons of pig iron for a nine-month blast. By 1851 they had a capacity of approximately 2,000 tons annually. The high-grade charcoal pig iron produced was known for its toughness and tenacity.

By 1840 the Furnace employed 150 men and 30 horses and mules. The plant was last operated by William Wilkins Glenn, who, together with John Glenn, Jr., and Robert Lemmon, also owned the Patuxent Furnace near Laurel. The Curtis Creek Furnace ceased operations in 1851.

The property containing the furnace was purchased about 1920 by John H. Geis of Anne Arundel County and titled in the name of the Hammarlee Realty Co. At that time about 1/3 of the furnace ruins were still visible.

In the late 1960's a tract containing the furnace reins was purchased by the State Roads Cornission for the Arundel Expressway.

The Furnace - The furnace was 30 feet high and 9½ feet wide at the boshes (the actual furnace inside). The blast which was 900 cubic feet per minute and blown through one tuyere pipe (air blast pipe) was driven by the water of the creek which also turned three other wheels connected with the establishment. The dam was one mile to the Southwest, and the old race could still be traced (in 1911) from the mill pond across Light Street (Crain Highway) to the furnace.

A photograph taken about 1000 and published in 1011 shows the furnace constructed of stone and brick with iron bands around the upper stack. This photograph is clear enough and with enough details to permit a fairly accurate restoration to be made.

The Martinet Mar of Anne Arundel County published in 1860 shows the site listed as Parker's old furnace and shows 5 structures represented by blocks in/rows parallel to the water.

The Hopkins Atlas of 1878 - 5th District shows the property listed to John Glenn and Co. and shows 3 structures parallel to the water. The site of the furnace was marked on an old map of the Fort McHenry area which was in the possession of the fort several years ago.

Old records state that 4 water wheels were used at Curtis Creek.

The locations of three of these wheels has been discovered.

Metal shavings found imbedded in the bottom of a pot uncovered in 1968 are believed to be from a lathe which would indicate that the foundry operation encluded a machine shop. One of the wooden buildings at the furnace is believed to have been more than 100 feet long. Some of the foundations for this building were uncovered in November, 1966.

It was believed that the furnace covered a 3-acre area, but the discovery in 1968 of the two ladle pots over 300 feet away from the furnace in an area not previously considered part of the site could indicate an even larger operation.

Iron bands used to hold the super heating structure together atop the furnace were found during the March, 1968, excavation project. These iron bands can be seen in the 1900 photograph.

Restoration and Site-use Potential - The land around the iron furnace ruins is now owned by the State Highway Corrission and is not being used for the arundel Expressway. This area is very close to developed areas but still maintains a feeling of natural beauty due to the water, the lack of structures on the North shore, the trees which block out the landfill and the buildings in Harrarlee, and by the high banks which hide the low brick pumping station. The Gas and Electric Company's Electric Transmission lines provide a clear buffer zone to the South.

It appears that this area of several acres could be developed into a park for the North County. There is a bridge and an access road from Mammarlee into the sewer pumping building, or access could be made from behind the factories off Furnace Branch Road.

The land along the Creek Bank is level with trees and an open trail which could be used for picnic tables. If future use of the landfill across the creek could be screened by the existing trees, the rural feeling along the water could be preserved.

The furnace ruins could be the key attraction of the park. The space directly around the furnace should be fenced while an archeological dig is undertaken. The furnace could be then rebuilt based on the evidence found. It is possible that financial support for this project could be obtained from the various iron and steel related industries in the Paltimore area.

This is one of the few remaining iron furnace sites in Marvland and because of its location in the heavily repulated center of Marvland could be developed as a major tourist attraction and serve as an educational tool for the Marvland School system.

Except for a few summer cabins built in the early 1900's, there have never been any buildings on this site other than the iron furnace

and buildings connected with it. An archeological excavation of the area should turn up a great deal of valuable material and information about this early iron industry. An archeological study should be undertaken even if restoration of the furnace is not planned because this will be the last opportunity to ever do this. One bulldozer could in one hour destroy forever what is left of the furnace.

The National Park Service has restored the Hopewell Iron Furnace in Berks County, Pennsylvania. This furnace was not stirted until 1770 about ten years after Curtis Creek, and it turned out only 700 tons of pig iron a year. The shape of this furnace is somewhat similar to the Curtis Creek Furnace. It is 22' at the base and 32' high

The Pennsylvania Historical and Puseur Corrission has restored the iron furnace at Cornwall, Pennsylvania. This furnace was originally built in 1742 but was remodeled in 1857 when it was enlarged from 20 to 28 feet square at the base and from 11 to 21 feet square at the top. The waterwheel was removed and replaced with a stear engine. This furnace is restored to its appearance when production stopped in 1883.

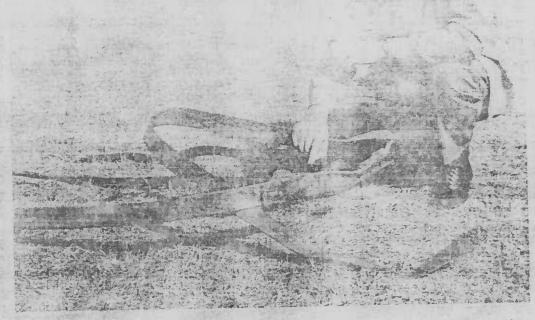
Both of these sites are open to the rublic and prove that there is public interest in visiting this tope of restoration.

This Report was compiled from information found in the follow-

- 1. Report on the iron ores of Md. Joseph Singewald, Jr., John Hopkins President 1911
- 2. Letter from Mr. Robert Lee Geis to Mrs. Robert Agee Oct. 22, 1975
- 3. Hopkins Atlas of 1878 Reprint 1969
- 4. Martinet Mar of A.A. Co. 1860
- 5. Marvland Gazettê, March 28, 1968 Pg. 21
- 6. Evening Sun, Fri. March 29, 1968
- 7. Colonials and Patriots, National Park Service 1964, Pgs. 66-68
- 8. The Living Past of America Cornelius Vanderbilt, Jr., Pg. 74
- 9. 2. Cornwall Furnace Folders by the Pennsylvania Historical and Museum Commission
- 10. Colonial Craftsmen Edwin Tunis Pes. 147-154 (Contains detailed information about the early iron- ra ing process)
- 11. On Site Inspection 1968 Photo Taken of ruins
 On Site Inspection with Mr. Robert L. Geis, Jan. 17, 1976

Larry R. Paul Feb. 10, 1976

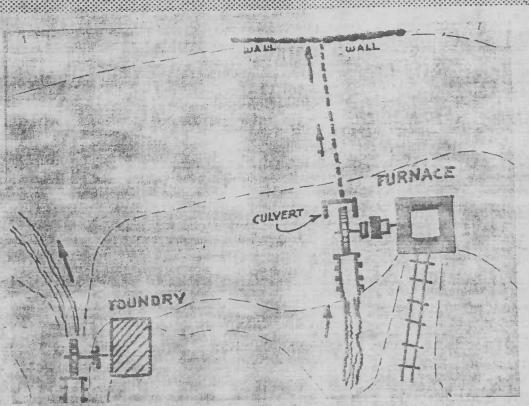
(D) (C) (C) (C) (C) FURNACE CREEK CONCRETE PRINTS 73 的印象场像质质 L HORD FLAT LEVEL AMEN APARTMEN BLOGS BRICK Stewer? PUMMAE BLAS Hommoru: 800 141511 O PEN FIELD BANK -STREAM Access OFE ELECTRIC LINES ON TOWERS ROAD FACTURILLA BRIGHER APROX LOCATION OF IRON FURNACE RUINS NOT TO SCALE. -NEW EXPRESSIVAY FURNACE BRANCH ROAD



FIRST ARTIFACTS — Iron bands used to hold the superheating structure together atop the Curtis Creek furnace, are displayed by the Rev. John A. Grant, project director. According to Rev. Grant, they are the first

tangible evidence of the iron ore operation. They were dug up by Boy Scouts who were assisting with the excavation and clearing process.

Photos By Peter W. Shookner



FURNACE COMPLEX SCHEMATIC — The probable location of the water ways, foundry and furnace have been approximated by the Historical Society who have based this

throughout Maryland and Pennsylvania. The foundry and furnace sites have been determined and when the area is cleared of underbrush, further excavation and digging will compense to pianoint various buildings.

Au gen of Bureau of 125 est, appointed superin County Detention was announced y

Paul D. Earn retire soon af service with the

Prowler Escapes From Si

Two county e schools were tan ly Monday morr was reported police stated.

A county police off someone winto and enter Elementary Sciarm. According L. Neisser, he window broken suspect fled the door when he building. Nothing missing.

Officer Jose reported a bre Jacobsville Ele about 6 a.m. pry marks on of the north sid

Sgi. He Outsta

Airma

Sergeant Ste son of Mr. & W. Hoffman dr., has recei Force Comme Pease AFB, M

Sergeant I struction equivas decorate service at Pl. He was cited professional s

He is now unit of the S mand.

The serges of Glen Burni



m above the water wheel ge. They are coopered with I metal hoops. Cranks on ly raise and lower pistons in system of flap valves makes at one end while it exhales he two give the effect of four thar, equalizing chest stands ers. Air under a pressure of s of a pound per square inch to the tuyère through a large nozzle about four feet long,

but sometime before 1822, 's before, its present, more cylinders' took over. These

nozzle about four feet long, the blast. Ironworkers com-"tooyer," or, like the black-"It pierces the wall under of or so above the level of the earth and its blast is directed he burning charcoal in the

ed from the ore, it ran down ble called the hearth, part of beyond a curtain wall (the nearth under the casting arch, etal was held back by the dam te dam, stopped by an easily g, allowed the furnace to be fice in twenty-four hours. A le, the "cinder hole," in the rehearth and at one side (not ing), was opened every hour e slag that accumulated on the in the hearth.

roduct of an iron furnace was ight for remelting and casting

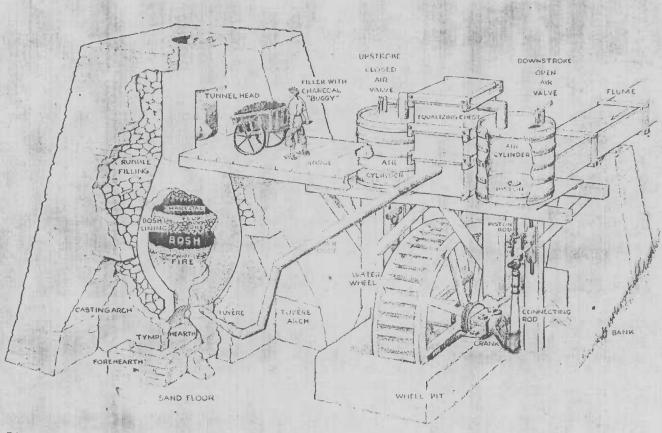


Diagram of a late 18th-century iron furnace similar to Hopewell

The same of the sa

the branches, and lay in them bubbling. When all were full, the crucible was empty and the hole in the dam was replugged to accumulate another run.

The founders broke the pigs off the sows with hammers when the metal cooled, and broke up the iron in the other trenches into portable pieces. The thick piece from the main trench was the sow. It weighed upward of two hundred pounds; a pig weighed sixty or seventy. The whole run was weighed on a steel-vard scale and

carved wooden pattern into the sand floor. Augustine Washington cast tombstone-shaped firebacks at Accokeek from patterns dated 1728—the date of a pattern is, of course, no guarantee of the date of the casting.

Hopewell cast firebacks, too, but by the time it started smelting, people had begun to heat their houses with stoves made of flat iron plates bolted together. The plates could be cast as simply as firebacks, and Hopewell made hundreds of them. An elaborate one survives

